IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	Atty. Docket
GERALD BERGER	PHO 98-520A
SERIAL NO.:	GROUP ART UNIT:
FILED: CONCURRENTLY	EXAMINER:

RECORDING ARRANGEMENT HAVING KEY WORD DETECTION MEANS

Commissioner for Patents
Washington, D.C.   20231

Sir:

PRELIMINARY AMENDMENT

Prior to calculating the filing fee and examination, please amend the above-identified application as follows:

IN THE SPECIFICATION

Enclosed herewith is a Substitute Specification.

IN THE CLAIMS

Please cancel claims 3 and 4, and amend the claims as follows:

1. (Amended)   A recording arrangement comprising:

receiving means for receiving a television signal and an information signal in which television program information;

recording means for recording a processed received

5   television signal of a television program; and

selection means for selecting at least one television program having title information contained in the television program information, said title information comprising at least one given keyword,

10 characterized in that said recording arrangement further comprises:

keyword detection means for detecting, as a detected keyword, at least one item of title fragment information of title information of a television program recorded by the recording means as a processed received television signal, said keyword detection

15 means providing said at least one detected keyword to the selection means as said at least one given keyword.

2. (Amended)   The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises a keyword memory for storing said at least one keyword detected by the keyword detection means.

5. (Amended) The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises a television program memory for storing television program information derived from a received information signal.

6. (Amended) The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises:

display signal generating means, said display signal generating means being manually activatable for generating a display signal representing television program information of selected television programs;

output means for applying the display signal to display means capable of displaying a list of recording suggestions containing television program information of at least one selected television program; and

recording programming means for manually marking the television program information of one of the selected and displayed television programs, whereby the recording arrangement is programmable to record the marked television program.

7. (Amended) The recording arrangement as claimed in Claim 1, characterized in that the keyword detection means detects as keywords only title fragment information having a minimum number of characters.

8.   (Amended)   The recording arrangement as claimed in Claim 1,
characterized in that said recording arrangement further comprises
an exclusion memory for storing at least title fragment information
which is to be excluded as a keyword by the keyword detection
5   means.

9.   (Amended)   The recording arrangement as claimed in Claim 1,
characterized in that the recording means automatically records a
television program selected by the selection means.

10.   (Amended)   The recording arrangement as claimed in Claim 1,
characterized in that the receiving means is capable of receiving
an information signal from a computer data network.

REMARKS

Enclosed herewith is a Substitute Specification in which
the specification as filed has been amended to correct
typographical and grammatical errors, and also to add section
headings.

In support of the above, enclosed herewith is a copy of
the specification as filed marked up with the above changes.

The undersigned attorney asserts that no new matter has
been incorporated into the Substitute Specification.

Claims 3 and 4 have been cancelled, while claims 1, 2 and
5-10 have been amended for clarity.

In the parent patent application, in the Office Action
mailed December 5, 2001, the Examiner had finally rejected claims
1, 2, 5, 6, 9 and 10 under 35 U.S.C. 102(e) as being anticipated by
U.S. Patent 6,061,056 to Menard et al. The Examiner had further
finally rejected claim 7 under 35 U.S.C. 103(a) as being
unpatentable over Menard et al. in view of U.S. Patent 5,787,426 to
Koshiba et al. The Examiner had moreover finally rejected claim 8
under 35 U.S.C. 103(a) as being unpatentable over Menard et al. in
view of U.S. Patent 6,240,378 to Imanaka et al.

In response to this Office Action, Applicant had amended
claim 1. However, as per the Advisory Action mailed February 20,
2002, the changes to claim 1 were not entered as "they raise new

issues that would require further consideration and/or search."
This continuation application re-institutes the changes to claim 1.

The Menard et al. patent discloses a television monitoring system with automatic selection of program material of interest and subsequent display under user control, which includes user-operable selection means for inputting criteria identifying program content of interest to a user. This user-operable selection means may be a LAN-connected PC (col. 5, line 26) where the user might enter a series of keywords representing topics of interest. The system automatically records or alerts a user to watch parts of a video stream wherein an actor speaks one or a series of keywords or those keywords occur within a closed caption text (col. 5, lines 5-19; col. 6, lines 24-38). Menard et al. further discloses to automatically create a profile of keywords out of existing database, spreadsheet or a word processor file (col. 5, lines 61-65).

The subject invention, as claimed in claim 1, comprises: "keyword detection means for detecting, as a detected keyword, at least one item of title fragment information of title information of a television program recorded by the recording means as a processed received television signal, said keyword detection means providing said at least one detected keyword to the selection means as said at least one given keyword." As described in the Substitute Specification on page 5, paragraph [0008], lines 11-22, the keyword

detection means forms a list of keywords by examining the title(s) of programs that the user has previously recorded. The keyword detection means then provides this list of keywords to the selection means which compares them to title information of television programs, and then selects the appropriate television program(s) whose title information comprises at least one of the keywords. As such, a keyword is (or keywords are) then determined automatically without any operations by the user being required.

In the current Office Action, the Examiner noted that the claims did not specifically recite that the keyword detection means "for automatically generating key word(s)". In response thereto, Claim 1 has been amended to indicate that the keyword detection means detects the keyword(s) and provides the keyword(s) to the selection means for selecting the appropriate television program.

Applicant submits that Menard et al. neither shows or suggests the autonomous generation of keyword(s) by the recording arrangement examining the title(s) of programs recorded by the user. Rather, the system of Menard et al. requires the user to generate the list of keywords and then uses this user-generated list of keywords to select the appropriate programs.

The Koshiba et al. patent discloses data sorting, data sorting tree creating, derivative extracting and thesaurus creating apparatus and method, or data processing system, in which a keyword candidate creator section 12 outputs partial strings of characters

having a number of characters within a predetermined range, e.g., larger than 3 but smaller than 12.

Applicant submits, however, that Koshiba et al. does not supply that which is missing from Menard et al., i.e., keyword detection means for autonomously generating keyword(s), to be used by the selection means, by the recording arrangement examining the title(s) of programs recorded by the user.

The Imanaka et al. patent discloses a weighting method for use in information extraction and abstracting, based on the freqeuncy of occurrence of keywords and similarity calculation, in which exception keywords that cannot be used as keywords are stored in the exception keyword storing section.

However, Applicant submits that, similar to Koshiba et al., Imanaka et al. does not supply that which is missing from Menard et al., i.e., keyword detection means for autonomously generating keyword(s), to be used by the selection means, by the recording arrangement examining the title(s) of programs recorded by the user.

In view of the above, Applicant believes that the subject invention, as claimed, is neither anticipated nor rendered obvious by the prior art, either individually or collectively, and as such, is patentable thereover.

Applicant believes that this application, containing claims 1, 2 and 5-10, is now in condition for allowance and such action is respectfully requested.

Respectfully submitted,

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1.   (Amended)   A recording arrangement ~~(1) having~~comprising:

receiving means ~~(14)~~ for receiving a television signal ~~(F)~~ and an information signal ~~(I)~~ in which television program information; ~~(FPI) can be transmitted, and having~~

5   recording means ~~(13)~~ for recording a processed received television signal of a television program~~,~~; and ~~having~~

selection means ~~(58)~~ for selecting at least one television program ~~whose~~ having title information contained in the television program information, said title information comprising ~~(FPI)~~

10   ~~contains~~ at least one given keyword,

characterized in that said recording arrangement further comprises:

keyword detection means ~~(54) have been provided~~ for detecting, as a detected keyword, at least one item of title fragment information of title information of a television program

15   recorded by the recording means ~~(13)~~ as a processed received television signal, ~~and in that~~ said keyword detection means providing said

at least one detected keyword ~~can be used~~ to the selection means as ~~a~~ said at least one given keyword ~~by the selection means (58)~~.

2.   (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in Claim 1, characterized in that said recording arrangement further comprises

a keyword memory ~~(55) has been provided~~ for storing said at least

5 one keyword detected by the keyword detection means ~~(54)~~.

5. (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that said recording arrangement further

comprises

a television program memory ~~(39) has been provided, in which~~ for

5 storing television program information ~~(FPI)~~ derived from a

received information signal ~~(I) can be stored~~.

6. (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that said recording arrangement further

comprises:

        display signal generating means, said display signal

5 generating means being ~~(60) are adapted to be also activated~~

manually ~~so as to generate~~ activatable for generating a display

signal ~~(A)~~ representing television program information ~~(FPI)~~ of

selected television programs; ~~and~~

        ~~in that the display signal (A) can be applied~~ output means

10 for applying the display signal to display means ~~(3)~~ capable of

displaying a list of recording suggestions containing television

program information ~~(FPI)~~ of at least one selected television

program~~,~~; and

~~in that~~recording programming means for manually marking
15 the television program information ~~(FPI)~~ of one of the selected and

displayed television programs, whereby ~~can be marked manually by~~

~~recording programming means (28) and~~ the recording arrangement ~~(1)~~

is ~~thereby~~ programmable to record the marked television program

~~thus marked~~.

7. (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that

the keyword detection means ~~(54) detect~~detects as keywords only

title fragment information having a minimum number of characters~~as~~

5 ~~keywords~~.

8. (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that said recording arrangement further

comprises

an exclusion memory ~~(57) has been provided, which memory is adapted~~

5 ~~to store~~for storing at least title fragment information which is to

be excluded as a keyword by the keyword detection means ~~(54)~~.

9. (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that

the recording means ~~(13) are adapted to~~ automatically records a

television program selected by the selection means ~~(58)~~.

10.   (Amended)   ~~A~~ The recording arrangement ~~(1)~~ as claimed in

Claim 1, characterized in that

the receiving means ~~(14) are adapted to receive~~ is capable of

receiving an information signal ~~(I)~~ from a computer data network

5   ~~(10)~~.